```
<!--StartFragment-->RESULT 1
AGU69156
LOCUS       AGU69156                681 bp    mRNA    linear   PLN 05-JAN-1999
DEFINITION  Alnus glutinosa actinorhizal nodulin AgNOD-GHRP (AgNt84) mRNA,
            complete cds.
ACCESSION   U69156
VERSION     U69156.1  GI:4097819
KEYWORDS    .
SOURCE      Alnus glutinosa
  ORGANISM  Alnus glutinosa
            Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
            Spermatophyta; Magnoliophyta; eudicotyledons; core eudicotyledons;
            rosids; eurosids I; Fagales; Betulaceae; Alnus.
REFERENCE   1  (bases 1 to 681)
  AUTHORS   Twigg,P.G.
  TITLE     Isolation of a nodule-specific cDNA encoding a putative
            glycine-rich protein from Alnus glutinosa
  JOURNAL   Thesis (1993) The University of Tennessee, Knoxville, TN, USA
REFERENCE   2  (bases 1 to 681)
  AUTHORS   Dobritsa,S.V. and Mullin,B.C.
  TITLE     In vitro expression of actinorhizal nodulin AgNOD-GHRP and
            demonstration of its toxicity ot Escherichia coli
  JOURNAL   (in) Stacey,G., Mullin,B.C. and Gresshoff,P.M. (Eds.);
            THE BIOLOGY OF PLANT-MICROBE INTERACTIONS: PRECEEDINGS OF THE 8TH
            INTERNATIONAL SYMPOSIUM ON MOLECULAR PLANT-MICROBE INTERACTIONS;
            (1996) In press
REFERENCE   3  (bases 1 to 681)
  AUTHORS   Pawlowski,K., Twigg,P.G., Dobritsa,S.V., Guan,C. and Mullin,B.C.
  TITLE     A nodule-specific gene family from Alnus glutinosa encodes glycine
            and histidine-rich proteins expressed in the early stages of
            actinorhizal nodule development
  JOURNAL   Unpublished (1996)
REFERENCE   4  (bases 1 to 681)
  AUTHORS   Twigg,P.G. and Mullin,B.C.
  TITLE     Direct Submission
  JOURNAL   Submitted (03-SEP-1996) Botany, University of Tennessee, 437 Hesler
            Biology Building, Knoxville, TN 37996, USA
FEATURES             Location/Qualifiers
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ORIGIN

Alignment Scores:
Pred. No.:              1.61e-50        Length:         681
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Best Local Similarity:  100.0%          Mismatches:     0
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Query Match:            100.0%          Indels:         0
DB:                     4               Gaps:           0

US-10-566-598-1 (1-99) x AGU69156 (1-681)

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Qy         21 SerSerAspValSerAlaSerGluLeuAlaValAlaAlaGlnThrLysGluAsnMetGln 40
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Db        134 TCCTCCGATGTCTCAGCTTCTGAGCTTGCTGTTGCCGCTCAAACCAAGGAGAATATGCAA 193

Qy         41 ThrAspGlyValGluGluAspLysTyrHisGlyHisArgHisValHisGlyHisGlyHis 60
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RESULT 2
Y08436
LOCUS       Y08436                  687 bp    mRNA    linear   PLN 22-SEP-1997
DEFINITION  A.glutinosa mRNA for Ag164 protein.
ACCESSION   Y08436
VERSION     Y08436.1  GI:2437816
KEYWORDS    ag164 gene; glycine-rich protein; histidine-rich protein;
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SOURCE      Alnus glutinosa
  ORGANISM  Alnus glutinosa
            Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
            Spermatophyta; Magnoliophyta; eudicotyledons; core eudicotyledons;
            rosids; eurosids I; Fagales; Betulaceae; Alnus.
REFERENCE   1  (bases 1 to 687)
  AUTHORS   Pawlowski,K., Twigg,P., Dobritsa,S., Guan,C. and Mullin,B.C.
  TITLE     A nodule-specific gene family from Alnus glutinosa encodes glycine-
            and histidine-rich proteins expressed in the early stages of
            actinorhizal nodule development
  JOURNAL   Mol. Plant Microbe Interact. 10 (5), 656-664 (1997)
   PUBMED   9204569
REFERENCE   2  (bases 1 to 687)
  AUTHORS   Pawlowski,K.
  TITLE     Direct Submission
  JOURNAL   Submitted (27-SEP-1996) K. Pawlowski, Dept. Molecular Biology,
            Agricultural University Wageningen, Dreijenlaan 3, 6703 HA
            Wageningen, NETHERLANDS
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ORIGIN

Alignment Scores:
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Best Local Similarity:  70.7%           Mismatches:     17
Query Match:            65.3%           Indels:         9
DB:                     4               Gaps:           1

US-10-566-598-1 (1-99) x Y08436 (1-687)

Qy          1 MetGlyTyrSerLysThrPheLeuLeuLeuGlyLeuAlaPheAlaValValLeuLeuIle 20
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Qy         41 ThrAspGlyValGluGluAspLysTyrHisGlyHisArgHisValHisGlyHisGlyHis 60
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Qy         61 GlyHisValHisGlyAsnGluHisGlyHisGlyHisHisHisGlyArgGlyHis 80
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Db        225 GGGAATGGACATGGA----------------------------CACCACGGCCATGGTCAC 257

Qy         81 ProGlyHisGlyAlaAlaAlaAspGluThrGluThrGluThrGluThrAsnGlnAsn 99
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Db        258 TCGGGACATGTTGTTGCTGCTGATGAGACAGAAACTGATCGAAATTAAAACCAATCA 314

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